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1 Formal interpreters for diagram notations
◈ Luciano Baresi, Mauro Pezzè
January 2005 **Transactions on Software Engineering and Methodology (TOSEM)**
Publisher: ACM ◈ Request Permissions
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The article proposes an approach for defining extensible and flexible formal interpre
notations with significant dynamic semantics. More precisely, it addresses semi-form
that have precisely-defined syntax, but informally ...

Keywords: Semi-formal notations, graph transformation, high-level Petri nets, sem

2 Formal verification in hardware design: a survey
◈ Christoph Kern, Mark R. Greenstreet
April 1999   **Transactions on Design Automation of Electronic Systems (TODAES**
Publisher: ACM ◈ Request Permissions
Full text available: 📄 Pdf (411.53 KB)   Additional Information: full citation, abstract, references, cit

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In recent years, formal methods have emerged as an alternative approach to ensuri
correctness of hardware designs, overcoming some of the limitations of traditional v
such as simulation and testing. There are two ...

Keywords: case studies, formal methods, formal verification, hardware verification
containment, model checking, survey, theorem proving

3 A brief survey of program slicing
◈ Baowen Xu, Ju Qian, Xiaofang Zhang, Zhongqiang Wu, Lin Chen
March 2005 **SIGSOFT Software Engineering Notes**, Volume 30 Issue 2
Publisher: ACM
Full text available: 📄 Pdf (535.10 KB)   Additional Information: full citation, abstract, references, cit

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 567,   Citation Count: 11

Program slicing is a technique to extract program parts with respect to some specia
Weiser first proposed the notion of slicing in 1979, hundreds of papers have been pi
Tens of variants of slicing have been studied, ...

Keywords: debugging, dependence analysis, pointer analysis, program analysis, pi

4

Requirements interaction management

William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov

June 2003 **Computing Surveys (CSUR)** , Volume 35 Issue 2

Publisher: ACM ◆ Request Permissions

Full text available: 🔲 Pdf (1.24 MB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 693, Citation Count: 6

Requirements interaction management (RIM) is the set of activities directed toward
management, and disposition of critical relationships among sets of requirements, w
critical area of requirements engineering. This survey …

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis ar
system, deficiency driven design, dependency analysis, distributed intentionality, in
software cost reduction (SCR)., system specification, viewpoint

5 CCured: type-safe retrofitting of legacy software

George C. Necula, Jeremy Condit, Matthew Harren, Scott McPeak, Westley Weimer

May 2005 **Transactions on Programming Languages and Systems (TOPLAS)** ,

Publisher: ACM ◆ Request Permissions

Full text available: 🔲 Pdf (613.66 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 133, Citation Count: 30

This article describes CCured, a program transformation system that adds type safe
existing C programs. CCured attempts to verify statically that memory errors canno
run-time checks where static verification is …

Keywords: Memory safety, libraries, pointer qualifier, subtyping

6 Communications of the ACM: Volume 52 Issue 4

April 2009   Communications of the ACM

Publisher: ACM

Full text available: 🔲 Digital Edition , 🔲 Pdf (7.58 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 1120, Downloads (12 Months): 1717, Citation Count

7 GPGPU: general purpose computation on graphics hardware

David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Clif
Lefohn

August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

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Full text available: 🔲 Pdf (63.03 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 286, Downloads (12 Months): 1516, Citation Count:

The graphics processor (GPU) on today's commodity video cards has evolved into ar
and flexible processor. The latest graphics architectures provide tremendous memor
computational horsepower, with fully programmable vertex …

8 Fast compiler optimisation evaluation using code-feature based performance p

Christophe Dubach, John Cavazos, Björn Franke, Grigori Fursin, Michael F.P. O'Boyle,

May 2007 **CF '07:** Proceedings of the 4th international conference on Computing fror

Publisher: ACM ◆ Request Permissions

Full text available: 🔲 Pdf (409.50 KB)   Additional Information: full citation, abstract, references, in

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 60, Citation Count: 2

Performance tuning is an important and time consuming task which may have to be
new application and platform. Although iterative optimisation can automate this pro
many executions of different versions of the ...

Keywords: architecture, artificial neural networks, compiler optimisation, learning,
performance modelling

9 Dynamic metrics for java
Bruno Dufour, Karel Driesen, Laurie Hendren, Clark Verbrugge
November 2003 **OOPSLA '03:** Proceedings of the 18th annual ACM SIGPLAN conferenc
programing, systems, languages, and applications
Publisher: ACM Request Permissions
Full text available: Pdf (222.67 KB)   Additional Information: full citation, abstract, references, cit

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 141,   Citation Count: 25

In order to perform meaningful experiments in optimizing compilation and run-time
researchers usually rely on a suite of benchmark programs of interest to the optimiz
under consideration. Programs are described as *numeric*, ...

Keywords: Java, dynamic metrics, execution traces, optimization, profiling, progra
metrics

Also published in:
  November 2003 **SIGPLAN Notices** Volume 38 Issue 11

10 How is aliasing used in systems software?
Brian Hackett, Alex Aiken
November 2006 **SIGSOFT '06/ FSE-14:** Proceedings of the 14th ACM SIGSOFT interna
Foundations of software engineering
Publisher: ACM Request Permissions
Full text available: Pdf (283.25 KB)   Additional Information: full citation, abstract, references, inc

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 63,   Citation Count: 6

We present a study of all sources of aliasing in over one million lines of C code, iden
the common patterns of aliasing that arise in practice. We find that aliasing has a gr
in real programs and that just nine ...

Keywords: aliasing, program analysis, satisfiability

11 Document structure
Richard Power, Donia Scott, Nadjet Bouayad-Agha
June 2003 **Computational Linguistics** , Volume 29 Issue 2
Publisher: MIT Press
Full text available: Pdf (498.41 KB)   Additional Information: full citation, abstract, references, cit

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 75,   Citation Count: 9

We argue the case for abstract document structure as a separate descriptive level ir
generation of written texts. The purpose of this representation is to mediate betwee
text (i.e., its discourse structure) and its ...

12 interactions: Volume 15 Issue 1
January 2008 interactions
Publisher: ACM

Full text available: Digital Edition , Pdf (9.79 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 314, Downloads (12 Months): 1576, Citation Count:

13 Real-time shading
Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mi
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes

Publisher: ACM ◆ Request Permissions

Full text available: Pdf (7.39 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 75, Downloads (12 Months): 652, Citation Count: 1

Real-time procedural shading was once seen as a distant dream. When the first vers
was offered four years ago, real-time shading was possible, but only with one-of-a-l
combining the effects of tens to hundreds of rendering ...

14 Communications of the ACM: Volume 52 Issue 2
February 2009 Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (7.09 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 653, Downloads (12 Months): 2835, Citation Count:

15 Spoken dialogue technology: enabling the conversational user interface
Michael F. McTear
March 2002 **Computing Surveys (CSUR)** , Volume 34 Issue 1

Publisher: ACM ◆ Request Permissions

Full text available: Pdf (987.69 KB)   Additional Information: full citation, abstract, references, ci

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 715, Citation Count: 25

Spoken dialogue systems allow users to interact with computer-based applications s
expert systems by using natural spoken language. The origins of spoken dialogue sy
back to Artificial Intelligence research in the ...

Keywords: Dialogue management, human computer interaction, language generat
understanding, speech recognition, speech synthesis

16 Communications of the ACM: Volume 52 Issue 3
March 2009 Communications of the ACM
Publisher: ACM

Full text available: Digital Edition , Pdf (7.04 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 749, Downloads (12 Months): 2299, Citation Count:

17 The KScalar simulator
J. C. Moure, Dolores I. Rexachs, Emilio Luque
March 2002 **Journal on Educational Resources in Computing (JERIC)** , Volume 2 Iss

Publisher: ACM ◆ Request Permissions

Full text available: Pdf (493.35 KB)   Additional Information: full citation, abstract, references, in

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 80, Citation Count: 1

Modern processors increase their performance with complex microarchitectural mec
makes them more and more difficult to understand and evaluate. KScalar is a graph
that facilitates the study of such processors. It allows ...

Keywords: Education, pipelined processor simulator

18 Communications of the ACM: Volume 51 Issue 9
September 2008 Communications of the ACM
Publisher: ACM
Full text available: Digital Edition , Pdf (8.68 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 561, Downloads (12 Months): 3940, Citation Count:

19 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitake
August 2004 **SIGGRAPH '04:** SIGGRAPH 2004 Course Notes
Publisher: ACM ♦ Request Permissions
Full text available: Pdf (17.07 MB)   Additional Information: full citation, abstract, cited by

Bibliometrics: Downloads (6 Weeks): 304, Downloads (12 Months): 1083, Citation Count:

Level set methods, an important class of partial differential equation (PDE) methods
surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function.
with preparatory material that introduces the ...

20 interactions: Volume 15 Issue 6
November 2008 interactions
Publisher: ACM
Full text available: Digital Edition , Pdf (7.15 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 128, Downloads (12 Months): 850, Citation Count: 0

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